ABSTRACT OF THE DISCLOSURE

The invention is a two part polymerizable composition comprising in one part an organoborane amine complex and one or more compounds containing ring opening heterocyclic moieties, and in a second part, compounds capable of being polymerized by free radical polymerization, a catalyst capable of polymerizing compounds containing ring opening heterocyclic moieties and optionally a component that will decomplex the organoborane amine complex. In one embodiment the invention is a two phase system comprising a first phase containing one or more polymers prepared from the compounds which polymerize by free radical polymerization and a second phase comprising polymerized or partially polymerized compounds derived from one or more compounds containing ring opening heterocyclic moieties. In one embodiment the polymer prepared from compounds containing heterocyclic ring opening moieties is not miscible with the polymer prepared by free radical polymerization and thus the resulting polymerized composition has at least two regions each rich in one of the two polymers formed. In another embodiment the polymerizable compositions of the invention can be formulated into adhesive compositions. Adhesive compositions of the present formulation provide excellent adhesion to low surface energy plastics from room temperature to temperatures over 125°C.